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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

12/16/2002

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 EXAMINER
YANG, RYAN R

CLASS-SUBCLASS

ARTUNIT

2672 345-430000

DATE MAILED: 12/16/2002

ı	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/506,382	02/18/2000	Kivohide Sato	2355,11107	8555

TITLE OF INVENTION: MARKER LAYOUT METHOD, MIXED REALITY APPARATUS, AND MIXED REALITY SPACE IMAGE GENERATION METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	03/17/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



#### Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

			Fax	(703)746-4000	D.C. 20231	
			EE and PUBLIC and notification ecifying a new c	CATION FEE (if r of maintenance feorrespondence addr	equired). Blocks 1 through 4 s es will be mailed to the current ess; and/or (b) indicating a sepa	hould be completed when correspondence address a arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE	ADDRESS (Note: Legibly mark-	up with any corrections or use I	Block 1)	Note: A certifica	te of mailing can only be used fo	r domestic mailings of the
05514 759				accompanying p	te of mailing can only be used for tal. This certificate cannot a pers. Each additional paper, s	be used for any other such as an assignment or
	ELLA HARPER &	& SCINTO		formal drawing,	must have its own certificate of n	nailing or transmission.
30 ROCKEFELLER					Certificate of Mailing or Trans	smission
NEW YORK, NY I	0112			United States Pos envelope address	that this Fee(s) Transmittal is stal Service with sufficient postar sed to the Box Issue Fee address USPTO, on the date indicated b	ge for first class mail in an above, or being facsimile
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APPLICATION NO.	FILING DATE	Fine	T MANGE INDICA	TOP	Lamonymy popularius I	
09/506,382	92/18/2000	FIRS	T NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
		IOD MIVED BEALITA	Kiyohide Sato		2355.11107 LITY SPACE IMAGE GENERA	8555
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBL	ICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280		\$0	\$1280	03/17/2003
EXAMIN	ER	ART UNIT	CLASS-SUBCLASS			
YANG, RY		2672	345-43000			
Please check the appropriate a	nce address (or Change of 2) attached.  In (or "Fee Address" Indic romer recent) attached. Under the control of the control of the control of the control of the USPTO or is being statistically or the USPTO or category or category or category.	Correspondence ation form se of a Customer BE PRINTED ON THE low, no assignee data wisubmitted under separate (B) RE	the names of u or agents Or, single firm (h attorney or ag registered pater is listed, no nan PATENT (print of ill appear on the cover. Completic SIDENCE: (CIT	patent. Inclusion of on of this form is No Y and STATE OR (	atent attorneys the name of a er a registered es of up to 2 this. If no name  assignee data is only appropriat OT a substitute for filing an assig	
4a. The following fee(s) are e	nclosed:	•	ment of Fee(s):			
☐ Issue Fee				t of the fee(s) is end		
☐ Publication Fee		•	•	d. Form PTO-2038		
☐ Advance Order - # of Co	pies	Deposi	Commissioner is t Account Numbe	r	by charge the required fee(s), or c (enclose an extra copy of this i	redit any overpayment, to form).
Commissioner for Patents is r	equested to apply the Issu	e Fee and Publication Fe	ee (if any) or to re	-apply any previou	sly paid issue fee to the applicati	on identified above.
(Authorized Signature)		(Date)				
NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.						
This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14 This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, D.C. 20231.						

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TRANSMIT THIS FORM WITH FEE(S)



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09/506,382 02/18/2000		Kiyohide Sato	2355.11107	8555
05514	7590 12/16/2002	· [	EXAMINER YANG, RYAN R	
FITZPATRICK 30 ROCKEFELL	CELLA HARPER &	SCINTO		
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
UNITED STATE	ATES	_	2672	
		n	ATE MAILED: 12/16/2002	

# Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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05514 7:	7590 12/16/2002		EXAMIN	ER	
FITZPATRICK CELLA HARPER & SCINTO			YANG, RYAN R		
30 ROCKEFELLE NEW YORK, NY			ART UNIT	PAPER NUMBER	
UNITED STATES	STATES		2672		
		DA	DATE MAILED: 12/16/2002		

### Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

		5					
	Application No.	Applicant(s)					
Nation of Allowability	09/506,382	SATO ET AL.					
Notice of Allowability	Examiner	Art Unit					
	Ryan R Yang	2672					
Examinor Part State							
pelow. Failure to timely comply will result in ABANDONMENT of to 7. A SUBSTITUTE OATH OR DECLARATION must be subm NFORMAL PATENT APPLICATION (PTO-152) which gives reas	nitted. Note the attached EXAMINER	S AMENDMENT or NOTICE OF					
CORRECTED DRAWINGS must be submitted.  (a) including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  1) hereto or 2) to Paper No  (b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner.  (c) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No							
identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper							
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s)							
1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5□ Information Disclosure Statements (PTO-1449), Paper No 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material	4☐ Interview Summa 6☐ Examiner's Ame	al Patent Application (PTO-152) ary (PTO-413), Paper No ndment/Comment ement of Reasons for Allowance					

Application/Control Number: 09/506,382

Art Unit: 2672

#### EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

As per claim 1, the closest prior art by Crane et al. (6,054,991) do not explicitly disclose in a marker layout method the step of "the markers to be used by only the given player are laid out at positions hidden by real objects when the markers are observed from the other player".

As per claims 15, 16, 18-21, the closest prior art by Crane et al. do not explicitly disclose in a mix reality space image generation, a marker layout method the step of

"substituting or overlaying images of the marker regions by predetermined virtual object images".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Inquiries

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Yang whose telephone number is (703) 308-6133. Application/Control Number: 09/506,382

Art Unit: 2672

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Michael Razavi**, can be reached at **(703) 305-4713**.

## Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

#### or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ryan Yang December 6, 2002

JEFFERY BRIEN PRIMARY EXAMINER

Jeffing a. Diver